Joint Aeronautical Commanders Group (JACG)

Aviation Science and Technology (S&T) Roadmap

https://jacg.wpafb.af.mil

Scott Skiple
JACG S&T Board Roadmap Team
scott.skiple@va.wpafb.af.mil

"If this is so great, why am I not using it already?"

- "Prehistory" dates to the initial days of Project Reliance
- Separate "spheres of influence" for Joint Directors of Laboratories (JDL) and JACG
- JACG (systems-oriented) wanted a way to track when science and technology would be available
- JACG Principals chartered the S&T Process Board to create a "roadmap" of all government funded, aviation-related S&T
- Initially conceived as a periodically-updated, stand-alone database
- Vastly improved Internet access, development tools have made it possible to maintain "live" data
- Beta tested fall/winter 1997; project information now current and maintained by project engineers

JACG S&T Board Charter

- "To coordinate at the user level those national aviation related science and technology activities being sponsored or executed by the individual members"

- "To increase the efficiency of and avoid duplication of effort in our national aviation science and technology development through coordination among the member agencies"
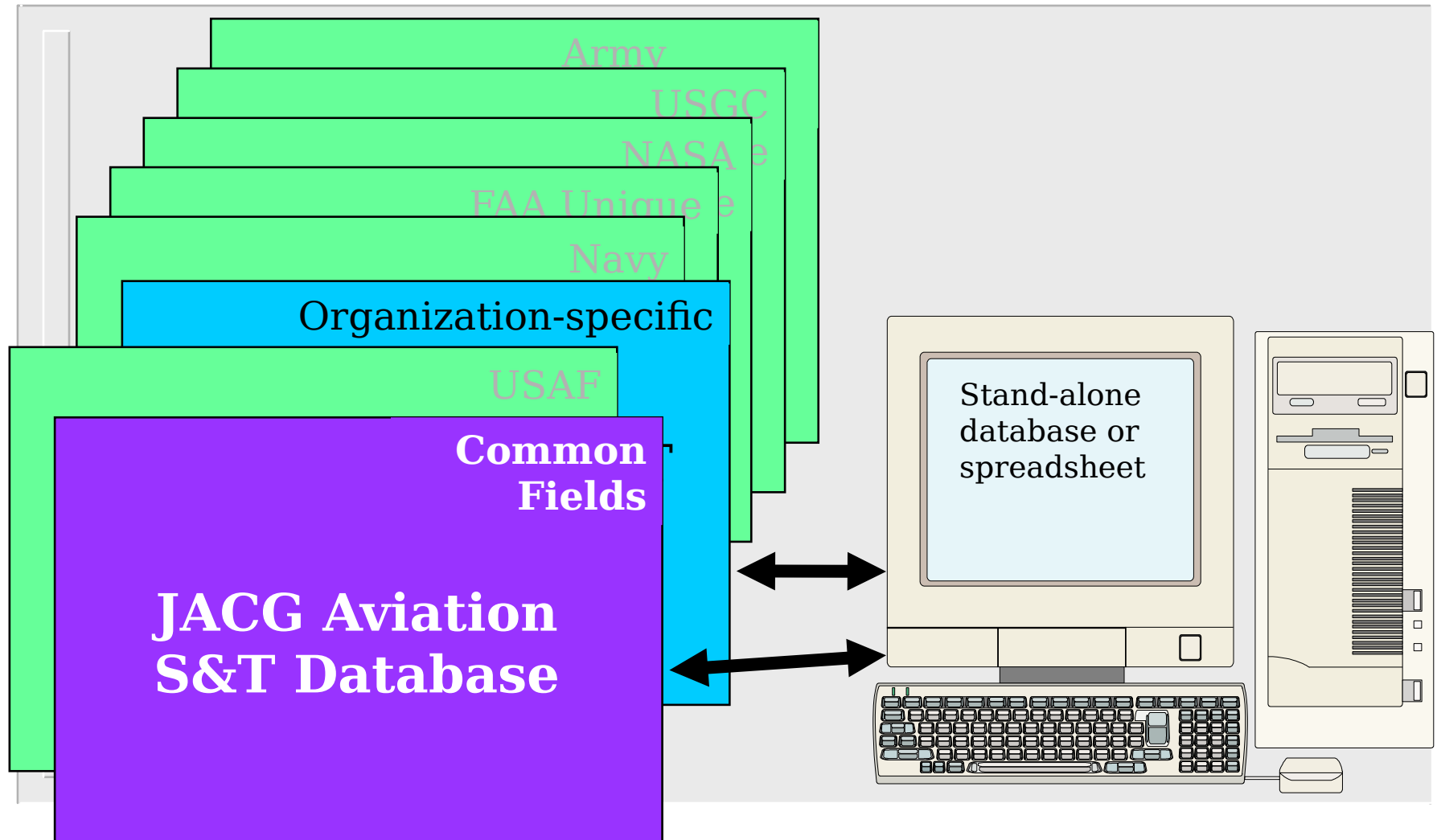
What the JACG Aviation S&T Roadmap *IS*:

- A two-way communications infrastructure
- A secure, readily accessible repository of live information on government-funded S&T:
  - basic standardized information fields (objective, challenges, approach, schedule/funding, milestones)
  - additional information tailored to any specific agency
- Project connectivity:
  - A Link to Taxonomy - assurance that project is part of a well-planned program
  - A Link to Customers - assurance that program is worth doing
  - A Link to the project performers - a place to get more information

What the JACG Aviation S&T Roadmap *IS NOT*:

- The "Last Database"
- Manpower intensive
- A resource drain
- A license to micromanage

Tailored Connectivity with Currently used Databases

Army

USGC

NASA

FAA Unique

Navy

Organization-specific

USAF

Common Fields

JACG Aviation S&T Database

Stand-alone database or spreadsheet

If you forget everything else about the JACG "Database" . . .

- It is not "vaporware" – ***it is up and running right now.***
- It is a communications infrastructure – brings together engineers in the Air Force Navy, Army, NASA, FAA, and Coast Guard.
- It is "live" information, not a collection of old reports.
- Its Information is readily accessible – securely, and free of charge – from any computer with an Internet connection.
- It requires no specialized training or reference manual.
- It combines a core of standardized project information and fields unique to a specific organization
- It can work in concert with familiar products – no need to abandon current databases.
- It ***Empowers*** engineers to keep the best information available.
- It ***Enables*** planners to access that information.